PSG/AID-321/68 26 September 1968

MEMORANDUM FOR THE RECORD

program.

out to the remote device.

SUBJECT: Automatic Stereo Comparator

5X1	1. On 25 September I met with	25X1
5X1	2. Among the subjects discussed was the teletype usage between 516 and UNIVAC 494. The teletype in this system will be used for parametric input into the 516 computer and then will be switched on-line to the UNIVAC 494. It will be the operator's responsibility to insure that this teletype is on-line to the 494 when data is to be sent to the remote station from the central processor. This does not seem to be a major problem.	25X1
:	3. Also discussed was the fact that the DDP 516 must be programmed for each camera system for which it is to be used. The programs are camera system dependent. is presently programming the instrument for the KH-4 system. FORTRAN compiler is available for this purpose. This problem has been ignored to date.	25X1 25X1
5X1	4. A major drawback to the present hardware configuration is that there is no device which can be conveniently used to load programs into the 516. The programs will be punched on paper tape and will be quite lengthy. is recommending the financing of a high-speed paper tape reader/punch for the system. This appears to be desirable.	
	5. Because I felt it would aid the personnel in their design of the machine, I briefed them on the manner in which we will use the device. This description is as follows:	25X1
	a. The 494 will accept the coordinates of conjugate imagery on-line and construct a drum-based file of this information.	
	b. Upon termination of operations on a frame, the Real-Time Mensuration Program will initiate a load request for a stereo	

Declass Review by NIMA/DOD

c. The stereo program will operate at the batch level of the

494 using the drum-based file as input and will send answers

Approved For Release 2003/05**SEGRAT**RDP78B05171A000100020044-9

SUBJECT: Automatic Stereo Comparator

The system will not be on-line in the manner of the present system but will have a response time on the order of five minutes. This appears to be acceptable to PHD.

6. Summarizing our work load and anticipated problems in regard to this project, it appears that the work load is minimal (under 80 man-hours) to link this device through the Real Time Mensuration Program and accept data to be stored on drum. Most of our work will be spent in the development of stereo programs. One such program,

is presently under development under another requirement. We have already spent 1400 man-hours on this project and anticipate an additional 400 man-hours to design the interface so that it may be used in the manner described above. AMB's present tasking is to concern itself only with the programming of the central processor in this application. No consideration has been given thus far to programming the DDP 516.

Chief, Applied Mathematics Branch, AID PSG/NPIC

25X1

25X1

Distribution:

Orig - NPIC/TSSG (Attn:

1 - NPIC/PSG/AID

2 - NPIC/PSG/AID/AMB

25X1

25X1